AIMEE SCHWAB-MCCOY

	EDUCATION	Assistant Professor of Statistics
2015	 Ph.D, Statistics University of Nebraska-Lincoln ♥ Lincoln, NE 	Program Director: Data Science
2012	Dissertation: "Beta-Binomial Kriging: An Improved Method for Modeling Spatially Correlated Proportions"	Department of Mathematics
2012 2010	 M.S., Statistics University of Nebraska-Lincoln • Thesis: "Evaluating the Teaching Assistant Preparation Course at UNL" 	Creighton University
2010 2005	 ■ B.S., Mathematics University of Nebraska-Lincoln ■ Honors: High distinction 	CONTACT
	ACADEMIC APPOINTMENTS	Hixson-Lied 545 ■ aimeeschwab- mccoy@creighton.e-
2020 2017	■ Assistant Professor of Statistics Creighton University ♥ Omaha, NE	du MaimeeSMcCoy AlmeeSMcCoy
2020 2019	 Program Director: Data Science Creighton University ♥ Omaha, NE 	3 (402) 280-2478
2017 2015	■ Assistant Professor of Statistics Xavier University Cincinnati, OH	RESEARCH INTERESTS
2015 2014	 Assistant Statistician School of Architectural Engineering and Construction, University of Nebraska-Lincoln ♥ Lincoln, NE 	Statistics and data science curriculum and pedagogy
2015 2010	● Graduate Teaching Assistant Department of Statistics, University of Nebraska-Lincoln ● Lincoln, NE	Generalized linear mixed models (ap- plications in R)
	PEER-REVIEWED ARTICLES	Spatially correlated count data
2020	 "Computing in the Data Science Curriculum: A Survey of Faculty Practices, Challenges, and Needs" Journal of Statistics Education ◆ Aimee Schwab-McCoy, Catherine Baker, and Rebecca Gasper 	Statistical consulting
		Made w/ pagedown us- ing Nick Strayer's CV

Made w/ **pagedown** using Nick Strayer's CV guide github.com/nstrayer/cv.

Last updated: 2020-07-

2019		"Cellular prion protein gene polymorphisms linked to differential scrapie susceptibility correlate with distinct residue connectivity between secondary structure elements" Journal of Biomolecular Structure and Dynamics Phttps://doi.org/10.1080/07391102.2019.1708794 Patricia Soto, India Claflin, Alyssa Bursott, Aimee Schwab-McCoy, and Jason Bartz
2019	•	"The State of Statistics Education Research in Client Disciplines: Themes and Trends Across the University" Journal of Statistics Education ◆ https://doi.org/10.1080/10691898.2019.1687369 • Aimee Schwab-McCoy
2018	•	"The incidence of nursing students' perceived stress and burnout levels at a private university in California" Journal of Nursing Education
2018	•	"Bringing Mainstream Media into the Quantitative Literacy Classroom" Shifting Contexts, Stable Core: Advancing Quantitative Literacy in Higher Education ▼ E-ISBN: 9781614443247 • Aimee Schwab-McCoy
2017	•	"Life on an Island: Using Peer Consulting in Applied Statistics Courses" CHANCE: Vol. 30, Special Issue on Climate Change • https://chance.amstat.org/2017/11/life-on-an-island/ • Aimee Schwab-McCoy
2016		"Developing a First-Year Seminar Course in Statistics and Data Science" Promoting understanding of statistics about society. Proceedings of the Roundtable Conference of the International Association of Statistics Education (IASE), July 2016, Berlin Germany. ◆ https://iase-web.org/documents/papers/rt2016/Schwab.pdf ◆ Aimee Schwab-McCoy
2016	•	"Emerging Patterns in Multi-Sourced Data Modeling Uncertainty" Spatial Statistics: Special Issue on Emerging Patterns ◆ https://doi.org/10.1016/j.spasta.2016.05.005 • Alexander Kolovos, Lynette Smith, Aimee Schwab-McCoy, Sarah Gengler, Hwa-Lung Yu
2015	•	"Beta-Binomial Kriging: An Improved Model for Spatial Rates" Procedia Environmental Sciences ♦ https://doi.org/10.1016/j.proenv.2015.07.101 • Aimee Schwab, David Marx
	<u> .i.l</u>	PRESENTATIONS
N	ote: Vi	rtual conference presentations can be viewed on my YouTube channel
2020	•	"Moving Backward: Designing an R Ecosystem for Academic Programs" Use-R 2020!

• Aimee Schwab-McCoy

2020	 "Is a Consensus Curriculum on the Horizon?" UC Berkeley Workshop on Data Science Education ◆ Remote (COVID-19) ◆ Aimee Schwab-McCoy, Catherine Baker, and Rebecca Gasper
2020	 "Data Science in 2020: Computing, Curricula, and Challenges for the Next 10 Years"
	Symposium on Data Science and Statistics ◆ Remote (COVID-19)
	Aimee Schwab-McCoy, Catherine Baker, and Rebecca Gasper
2020	 "Subsemble Estimation for Spatial Count Data" Conference on Statistical Practice ♥ Sacramento, CA
	Aimee Schwab-McCoy, Mark May
2019	"Toward Interpretable Machine Learning"
	Omaha Women in Machine Learning and Data Science ◆ Omaha, NE • Aimee Schwab-McCoy
2019	"Pre-Conceptions of Statistical Inference in Biostatistics"
	University of Nebraska Medical Center Department Colloquium ◆ Omaha, NE • Aimee Schwab-McCoy
0010	"Pre-Conceptions of Statistical Inference in Biostatistics"
2019	Joint Statistical Meetings ◆ Denver, CO
	Aimee Schwab-McCoy
2019	 "Applications of Subsemble Estimation in Multivariate Spatial Models" Joint Statistical Meetings ♥ Denver, CO
	Mark May, Aimee Schwab-McCoy
2019	"Pre-Conceptions of Statistical Inference in Biostatistics"
	US Conference on Teaching Statistics ◆ State College, PA • Aimee Schwab-McCoy
2018	"Statistics Education Across the University: A Systematic Review"
2010	Joint Statistical Meetings ♦ Vancouver, BC, Canada
	Aimee Schwab-McCoy
2018	 "Spatial Simulation and Estimation of Generalized Linear Mixed Models with Non-Normal Data"
	BERD Big Data Methodology Workshop ◆ Omaha, NE
	Lynette Smith, Aimee Schwab-McCoy, David Marx
2017	"Data-Focused Activities and Lessons in Seminar-Style Introductory Courses"
	US Conference on Teaching Statistics ◆ State College, PA • Aimee Schwab-McCoy, Ming-Wen An Wissman, Adam Molnar
2018	"Life in the Data Deluge: A First-Year Seminar on the Implications of Data Science for Daily Life"
	Joint Mathematics Meetings ◆ San Diego, CA • Aimee Schwab-McCoy
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2016	 "Developing a First-Year Seminar Course in Statistics an IASE Roundtable Conference Aimee Schwab-McCoy 	d Data Science" ♦ Berlin, Germany
2015	 "Statistical Consulting: Making Connections Across the US Conference on Teaching Statistics Aimee Schwab, Pamela Fellers 	Curriculum" ♥ State College, PA
2016	 "Peer Consulting in Undergraduate Statistics Courses" Joint Mathematics Meetings Aimee Schwab-McCoy 	♥ Seattle, WA
2015	 "Beta-Binomial Kriging: An Alternative Model for Spatial Joint Statistical Meetings Aimee Schwab, David Marx 	Rates" ♥ Seattle, WA
2015	 "Beta-Binomial Kriging: An Alternative Model for Spatial Spatial Statistics 2015: Emerging Patterns Aimee Schwab, David Marx 	Rates" ♦ Avignon, France
2014	 "Spatial Simulation and Estimation of Generalized Linear with Non-Normal Data" METMA-GRASPA Joint Meeting Lynette Smith, Aimee Schwab, David Marx 	Mixed Models ◆ Turino, Italy
2014	 "Using the Island to Develop Consulting Skills" Joint Statistical Meetings Aimee Schwab 	♥ Boston, MA
2014	 "Developing New Statistics Instructors and Student Lead 	lers Through
	Peer Mentoring" CAUSE Webinar • Erin Blankenship, Aimee Schwab	Online webinar
2013	 "Facebook Friend Data: Analyzing Non-Random Samples 	s in the Introduc-
	tory Course" Joint Statistical Meetings • Aimee Schwab	Montreal, Canada
2013	"Using StatCrunch Friend Data to Illustrate Consequence	es of a Non-Ran-
	dom Sample" US Conference on Teaching Statistics • Aimee Schwab	♥ Raleigh, NC
	P GRANTS	
2020	 "Nebraska Institute in Human-Powered AI for Bioimaging National Science Foundation (NSF 20-503) ◆ Amount: \$4 ◆ Creighton PI: Aimee Schwab-McCoy; Subaward from UNL 	," 5,822 (Under review)

2019	 "Nebraska Center for Modeling, Analysis, Prediction, and Imaging of Data" 	
	Nebraska EPSCoR RII Pre-Proposal	
2019	 "MAPping Data Science: Establishing an Institute for Meaningful Assessment Practices in Data Science" 	
	National Science Foundation (NSF 19-549)	
2019	• "Applications of Subsemble Estimation in Multivariate Spatial Models" Creighton Haddix President's Faculty Research Fund	
	PI: Aimee Schwab-McCoy	
2019	 "Faculty Development Grant: Introduction to Data Science" CURAS Certificate in Research and Scholarship ◆ PI: Aimee Schwab-McCoy 	
2019	 "Faculty Development Grant: Biostatistics" CURAS Certificate in Research and Scholarship ◆ Co-PIs: Aimee Schwab-McCoy, Andrew Kraemer • Co-PIs: Aimee Schwab-McCoy, Andrew Kraemer	
2018	 "Honey Bees in Peril: An investigation of honey bee viral infection dynamics and modeling-implications for Colony Collapse Disorder" Haddix Interdisciplinary Project Grant PI: Carol Fassbinder-Orth; Co-Pis: Andrew Kraemer, Aimee Schwab-McCoy 	
2018	 "Exploring Student Understanding and Misconceptions of Statistical Inference in Biostatistics" Creighton Scholarship of Teaching and Learning Grant	
2017	 "Statistics Education Across the University: A Systematic Review" Xavier Wheeler Award ♠ Amount: \$4,000 (Awarded) • PI: Aimee Schwab-McCoy 	
2016	 Creating a Xavier pilot program to support career specialization and persistence of female students in disciplines with underrepresentation" Xavier Women of Excellence Grant Co-PIs: Laura Wessels, Dena Morton, Aimee Schwab-McCoy, Heidrun Schmitzer 	
	UNDERGRADUATE RESEARCH	
2019	 Subsemble estimation applied to spatial GLMMs Creighton University ◆ Student: Mark May Apply subsemble estimation for estimating spatial parameters in a generalized linear mixed model (GLMM). 	

Analysis of high dimensional case-control study 2018 Creighton University Student: Jessica Sandcork • Evaluate resampling-based multiple testing and adaptive Benjamini-Hochberg procedures to test for statistically significant differences between subjects in a small sample case-control study. Used machine learning to adjust for correlation between variables. **SERVICE Ratio Studiorum Program** 2020 Freshman advisor • Creighton University 2019 Advise first-year students in the Ratio Studiorum Program 2020 Reviewer Journal reviews • Creighton University 2017 • Journal of Statistics Education, Spatial Statistics Reviewer 2020 Textbook reviews • Creighton University 2018 • Review proposed and revised textbooks: "Foundations of Statistics with R", "The Analysis of Biological Data", "STAT2: Building Models for a World of Data" **Clare Boothe Luce Scholarship Award Committee** 2020 Member • Creighton University • Review applications for Clare Boothe Luce tuition and research scholarship

Quantitative Reasoning Committee

Member ♥ Xavier University

• Review and approve course proposals for Quantitative Reasoning Flag in core curriculum

Hiring Committee 2017

2017

2016

2014

2013

Xavier University Member 2016

• Review and interview candidates for open positions in statistics

AWARDS

Best Young Investigator Award 2019

ASA Section on Teaching Statistics in the Health Sciences

Best Contributed Paper Award - JSM

• ASA Section on Teaching Statistics in the Health Sciences

Outstanding Graduate TA Award

Honorable Mention University of Nebraska-Lincoln